

Amwell GPS

101E User's Manual

For Quick install and Water proof solution



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Preface

Thank you for choosing the company's T360-101E GPS tracking products, please carefully read the instructions before operating.

Please check the items in package with packing list, contact with the distributor when you found something leave out.

Disclaimer:

Read this user manual carefully please. When you start use this product, then you are deemed to have read this user's manual.

This Product used as assistant tool for Security only, can't prevent all kinds of deliberately theft or malicious damage vehicles. For the safety of your assets, you still need keep necessary vigilance and security awareness after you installed this product. We do not bear responsibility to any loss except product itself. Thanks!



1.Product Introduction

T360-101E satellite positioning system combined with anti-theft, positioning, monitor and observe, alarm for help, advertising, vehicle scheduling and tracking functions, it's easy to use, easy to operate, the characteristics of a full-featured, the main applies to Motorcycles, vehicles and other mobile object location and tracking services.

T360-101E fully supports the GPRS network data transmission function, GPRS platform can be combined with software to make it more widely used in large-scale cluster monitoring, emergency scheduling, location-based services, fleet management, traffic safety management and many other fields.

Product Features:

- Protected against spraying water design.
- Build-in GSM/GPS antenna.
- Support GPS real-time tracking.
- Support GPRS network data transmission.
- Wide range voltage input.
- High integration design.
- Remote Cut/Recover Engine.
- SOS Alarm/Main power cut alarm.
- Intelligent shock alarm for Anti-theft.

Note:

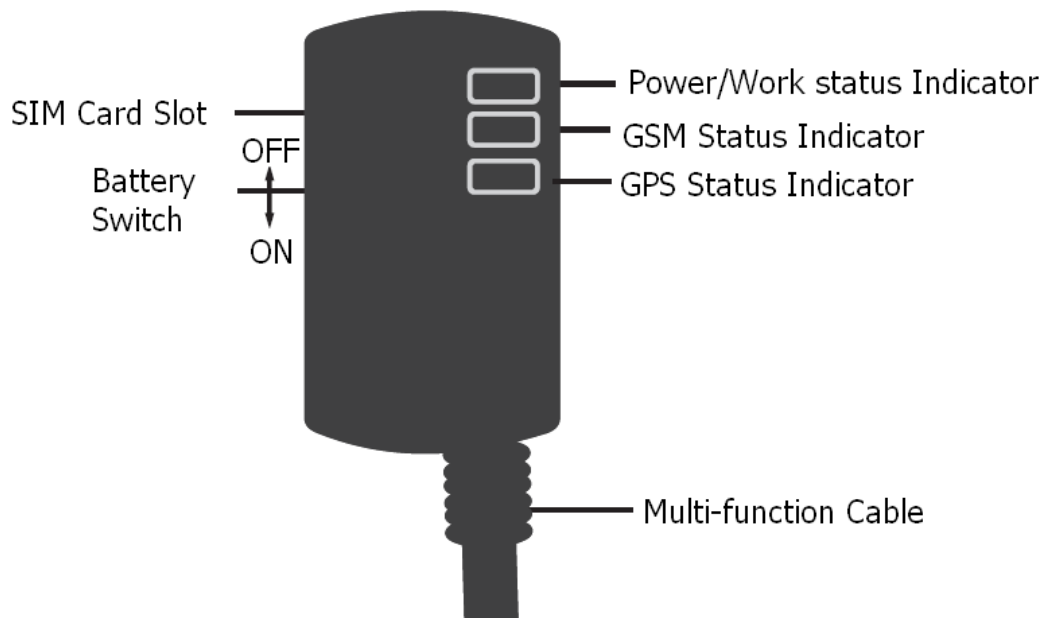
- ✓ This product function based on GPRS network; need a SIM card which have GPRS data transmit and SMS functions.
- ✓ SIM card is not include in the packing list, please prepare SIM card before you use this device.
- ✓ Self-define cable can be cut if you do not use it.
- ✓ If you do not need remote cut engine function, you can do not connect the relay. And in default we use 12V DC relay, if your car have a 24V DC power, please tell us before you place an order.
- ✓ This product work voltage is (9v/DC, 36v/DC), lower or higher will make device work un-proper.
- ✓ This product is only against spraying water; do not put it into water. Choose the dry location to install, and pay attention to water moisture.



2.Packing List

No.	Name	Count
1	101E Main device	1
2	3.0-8PIN Cable	1
3	Device fixed Ties	1
4	Magic Tape (50*70mm)	1
5	Relay	1

3.Product Overview



4.Technical Parameters

Name	Parameters
Gift Box Dimension	138mm*105mm*60mm
Color	Black
Working Voltage	9-36 V/DC
Working Current	50-100mA
Back-up Battery	500mAh
Tracker size	95mm*56mm*19mm
Tracker weight	180g
Working temperature	-25℃ - +70℃
Moisture	5% - 95%

Locate time	Hot start: <2s Warm start: <15s Cold start: <40s
GPS Capture Sensitivity	-144dbm
GPS Receive Sensitivity	-159dbm
GPS Receiver	20 Channels
LED Indicator	Use blue/green/red three color LED indicator to show the status of power/GPS/GSM.

5. Define of LED indicator

LED Color	Status	Status describe
Blue	5s blinking once	Device main power normal
Blue	0.5s blinking once	Device main power lose
Blue	Off	LED die or no power
Red	Always on	Phone call in/out, device restart or modem fault
Red	3s blinking once	Find SIM card
Red	1s blinking once	Do not find SIM card
Red	On 200ms Off 100ms	Device receiving or sending GPRS data
Red	Off	GSM module fault, no power or LED die
Green	0.5s blinking once	Initializing
Green	1s blinking once	Initialization finished, but GPS do not get position
Green	5s blinking once	GPS get position now
Green	Off	LED die, no power or GPS module fault.

6. Device Installation

Before you start install the device, Please check the product you get with the packing list, if you have any problem please contact us or distributor in time.

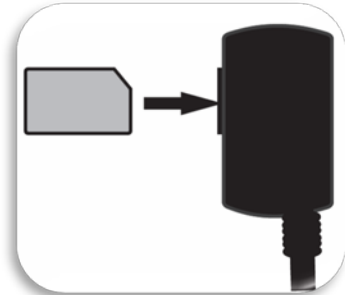
6.1. Prepare works

- ✧ Amwell GPS product 101E
- ✧ Local GPRS SIM card
- ✧ 12V DC power supplier

6.2. SIM Card Installation

This device need install a SIM Card, which must have GPRS data transmission and SMS function. In default setting, this device will use around 15MB~20MB data flow, please select suitable package.

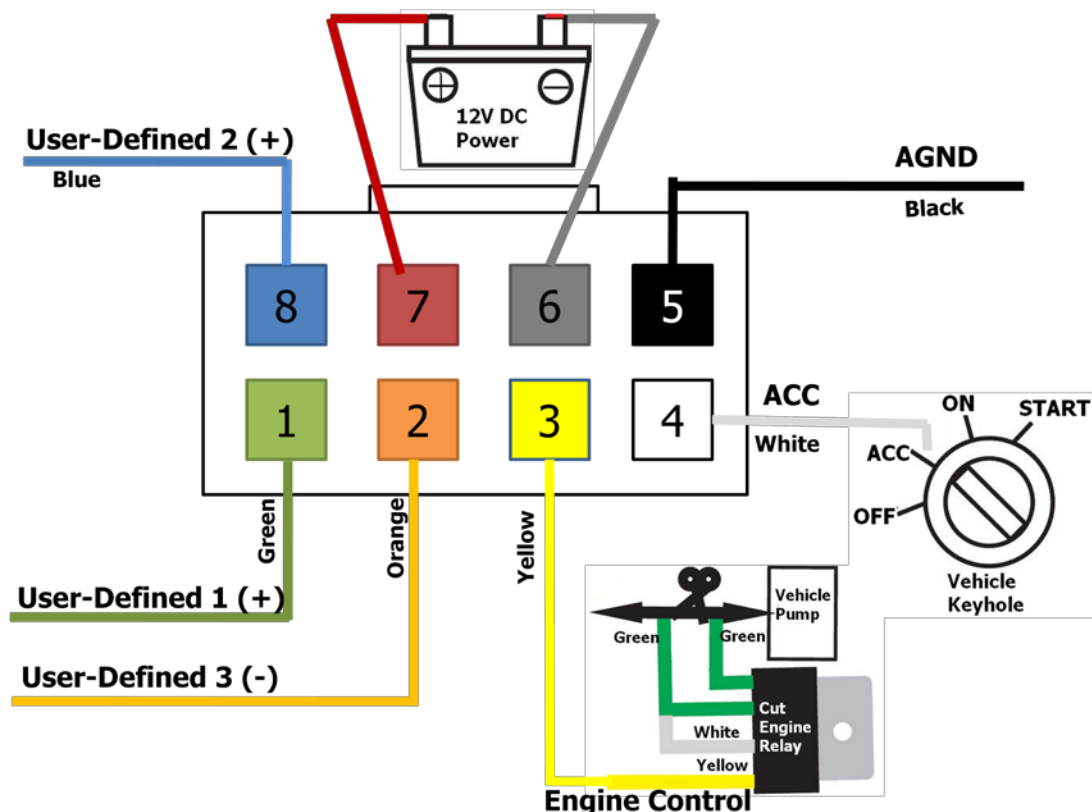
SIM Card install method: uncover the soft slot cover for SIM card; Insert the SIM Card with Metal side face down; then tighten the soft slot cover.



Note:

- Do not install SIM Card in opposite way.
- SIM Card must open GPRS data transmission function
- If your SIM card need input PIN code, check with local GSM network supplier.
- Confirm the SIM Card have enough balance inside.
- Test SIM card by cell phone to check if it can connect network
- Please do not remove or insert SIM Card without power off, to avoid the damage to SIM card and device

6.3. Device Connection Diagram



- ① Green: User-Defined 1 (+)
- ② Orange: User-Defined 3 (-)
- ③ Yellow: Engine Control
- ④ White: ACC detect
- ⑤ Black: Output GND for detect cable
- ⑥ Grey: Power GND
- ⑦ Red: Power Positive
- ⑧ Blue: User-Defined 2 (+)

Note: for now ② and⑤ are used for SOS button.

6.4. Device Install Position

To install this device you need have some necessary knowledge about Car Electronics. So please make sure you have right person to make the first installation.

In the installation process, do not power on device. The following is some problem may facing in the installation process, please note:

There have two kind of way to install the device: Hidden install and Open type install. When install in special-purpose vehicle you can select hidden install, and when install in temporary vehicle you can select Open type install.

- I. To avoid be broken, the install position of the device should be hidden. The suggest positions are:
 - ① Covert within the dalle below the front windshield glass;
 - ② Covert around the front instruments panel (the cover of the instruments should not be metal)
 - ③ Place Under the dalle below the rear windshield glass of the car.
- II. Avoid the positions round emitters, such as reverse sensor, burglar alarm and other vehicle-mounted communication devices.
- III. Use the ribbon or sponge powerful double-sided adhesive to fasten the device.
- IV. The device GSM Antenna and GPS Antenna are build-in, please make sure the GPS receiving surface (the side with LED indicator) face to sky and no metal shelter above when install.

Note:

- ✧ If there have metal thermal-protective coating or warm up coating on the windshield glass, the GPS signal will be damped. That may cause the device work abnormal, please change install position.
- ✧ If you want to install the device by Open type, you can paste the Velcro tape on the dalle below the front windshield glass, and then fasten the



device on it.

7.Setting Commands (SMS)

To make the device work on GPRS mode together the control center software system, we have to set some parameters to make the device know where and how to connect the server.

The following parameters must be set before you use this device:

a. Server IP and Port (No.1 in table)

Device must have a server to upload the data to; in default it is set to our server IP and Port, if you use your own server, tell us before you place an order. The setting command is No.1, for example:

AS1234IPPO:121.37.59.217;7777;#

b. APN (No.3 in table)

Full name for APN is Access Point Name, which should be given when you buy a GPRS SIM Card. It is offered by GSM network supplier, like China Mobile public APN is CMNET.

It consists by 3 parts: APN, APN username, APN password. Some of the GSM operator do not have APN username and APN password, just leave it blank.

c. Device password (No.10 in table, Optional)

In default all device have a password 1234 (it is include in all the commands), you can change it by SMS command. After you change it, all the commands in the table below need change. The '1234' in the commands need be change to new one.

The following is a SMS command list, with it you can set or get information you need.

No.	Name	Command	Reply	Instruct
1	Set server IP/Port	AS1234IPPO:121.37.59.217;7777#	IPPO:119.147.23.108;7777;OK	Reply content is "IP" "Port"
2	Set Device ID	AS1234IDDO:00012345#	IDDO:00012345;OK	Current "ID"
3	Set APN	AS1234APN:CMNET#	APN:CMNET;OK	APN setting
		AS1234USER:GPRS#	USER:GPRS;OK	
		AS1234GPRSPASS:GPRS#	GPRSPASS:GPRS;OK	
4	Restart Device	AS1234RSGS#	GSM/restart; OK	Device restart
5	Factory set	ASAX*%UPAS#	PASSWORD:1234;OK	All parameters recover to factory, beside IP/Port/ID/APN
6	State query	AS1234STATE#	121.37.59.217, 7777, 0, 00001234, 101EG_1.0,C20G 1MD3	

7	Position query1	AS1234WHERE1#	Address with city, street reply	
8	Position query2	AS1234WHERE2#	http://maps.google.com/maps?hl=en&q=+22.59303,+113.87110	
9	Force online command	AS1234LINE:ON#	LINE:ON;OK	
10	Force offline command	AS1234LINE:OFF#	LINE:OFF;OK	
11	Set Password	AS1234PASSWORD:5678#	PASSWORD:5678;OK	

8.FAQ

8.1 Show offline in Software Platform

Firstly, check if the device LED indicator shows normal. If device is not beside you, use telephone to check. Call the SIM card telephone you inserted in device, and then judge the device status by the prompt tone.

■ **If prompt “the number you dialed is unavailable” or “not in service”.**

Possible reason: device is in a GSM blind spot or the GSM signal is too poor to access GPRS.

Solution: Move to a position where with good GSM signal.

■ **If prompt “not sufficient funds” or “Already stopped”.**

Possible Reason: SIM Card does not have enough balance.

Solution: recharge money to this SIM card.

■ **If prompt “du...du...du...”**

Possible Reason: SIM card have enough balance, but GPRS not work.

Solution: 1. Check with the SIM Card supplier, make clear if the GPRS function of this SIM card has opened; 2. Put this SIM card to a Cell phone , to check if you can open a website, if can't telephone to local operator.

■ **If prompt “The phone you dialed is power off”**

Possible reason: 1.SIM Card not install correctly; 2. SIM Card is broken; 3. Device do not have power.

Solution: this situation, you must get the device back, and check it directly.

a. Check the blue LED indicator for power. If it is not on all the time, check the power connection layup and the fuse of main power; make sure they are all in normal status. Also you can use a multi-meter to measure the voltage of main power line in 8 pin cable, if it is normal, you can dismounting the device and contact us to repair.

b. If the blue power indicator blinking every 5s, green led for GSM indicator keep off, check if SIM card was installed correctly. If it is installed in correct way, please take it out and clear the metal part of SIM Card, then try again. If still do not work, change another SIM card and try.

8.2 All the devices show offline in Software Platform

Check the software platform server part, if it works normal contact with your GSM network operator. If both server and GSM network have no problem, then please check the GPSCient network.



8.3 Device do not get correct position

First time get position will take longer time (around 1~2 min), please drive to a wide area to get position. If it takes long time and do not get correct location, please check if the device install position is correct and no metal shield above it.

8.4 Device do not get GSM network

Make sure the SIM card was correct installed, and make sure the device not in a GSM signal blind area (such as underground garage).

8.5 Power Indicator do not on when connect power

Check if the fuse in the power cable is burnout, if yes please contacts us to change fuse with same specification. Make sure the device do not have other problems then power on again.

